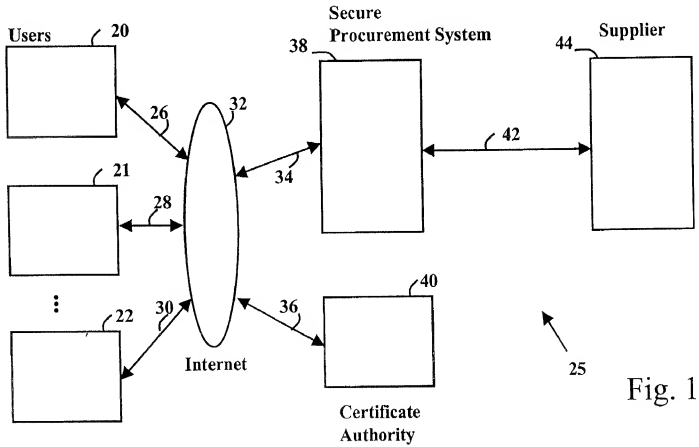


Fig. 1

09755467.010501

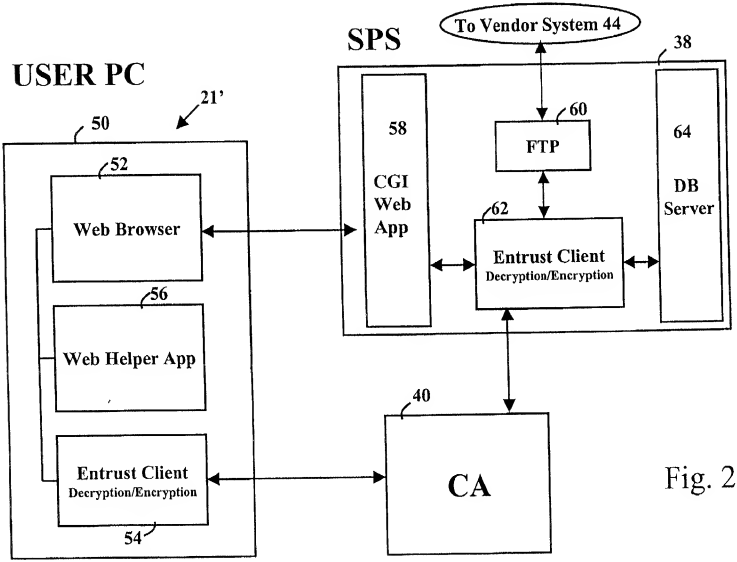


Fig. 2

09755467.010501

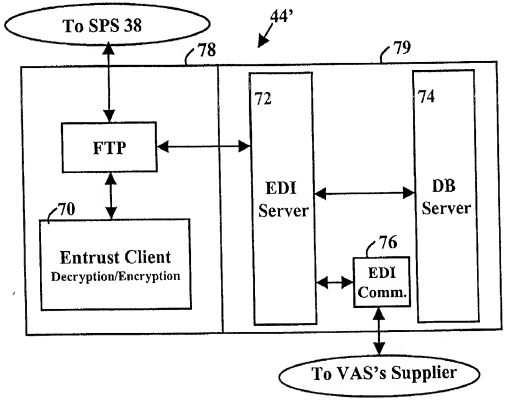

Value Added Supplier
To SPS 38
44'
78
79
72
74
FTP
EDI
Server
DB
Server
70
Entrust Client
Decryption/Encryption
76
EDI
Comm.
To VAS's Supplier

Fig. 3

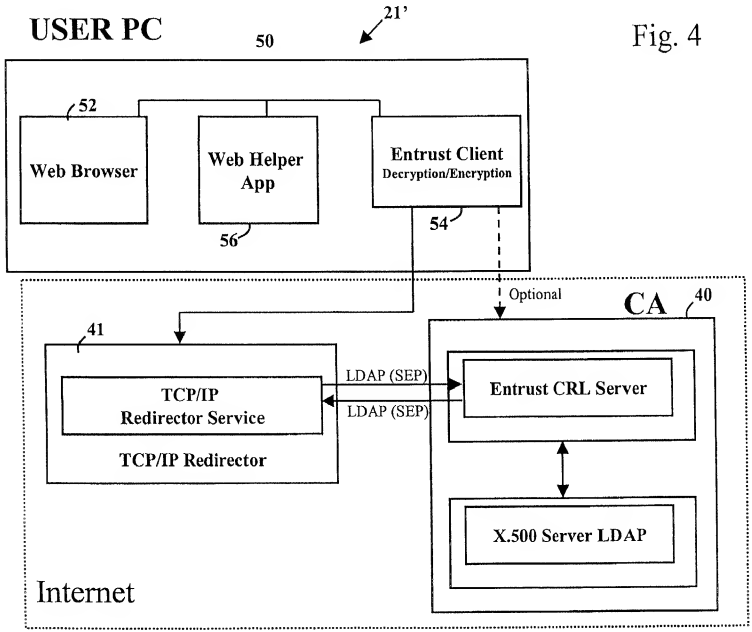


Fig. 4

09755467.010501

Fig. 5

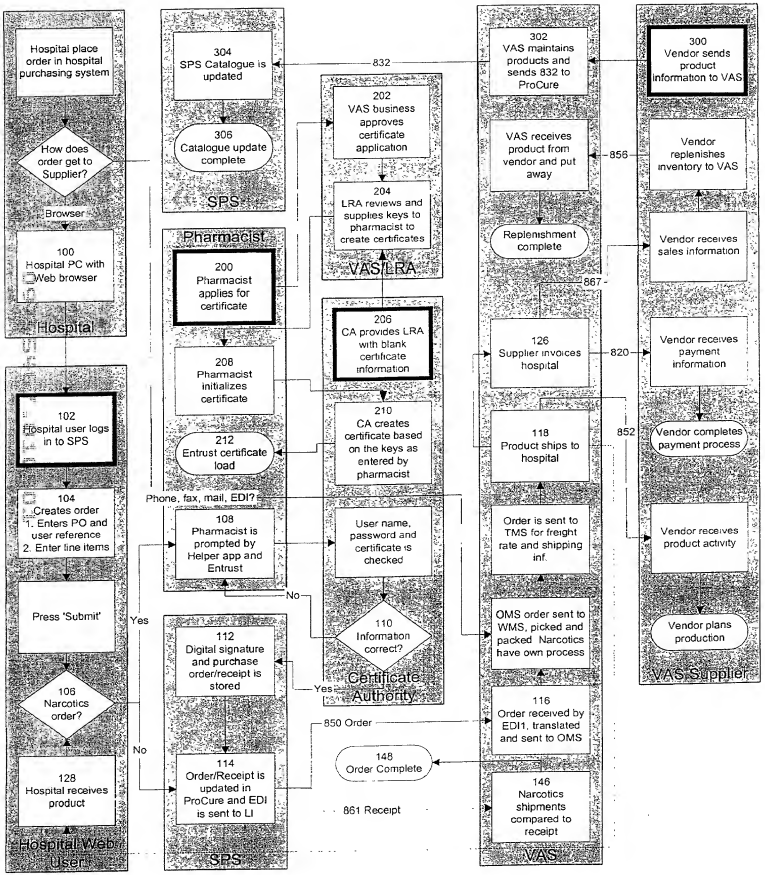

Hospital place order in hospital purchasing system
How does order get to Supplier?
Browser
100 Hospital PC with Web browser
Hospital
102 Hospital user logs in to SPS
104 Creates order 1. Enters PO and user reference 2. Enter line items
Press 'Submit'
106 Narcotics order?
No
128 Hospital receives product
Hospital Web User
Yes
304 SPS Catalogue is updated
306 Catalogue update complete
SPS
Pharmacist
200 Pharmacist applies for certificate
208 Pharmacist initializes certificate
212 Entrust certificate load
Phone, fax, mail, EDI?
108 Pharmacist is prompted by Helper app and Entrust
112 Digital signature and purchase order/receipt is stored
114 Order/Receipt is updated in ProCure and EDI is sent to LI
SPS
832
202 VAS business approves certificate application
204 LRA reviews and supplies keys to pharmacist to create certificates
VAS LRA
206 CA provides LRA with blank certificate information
210 CA creates certificate based on the keys as entered by pharmacist
User name, password and certificate is checked
110 Information correct?
No
Yes
Certificate Authority
850 Order
148 Order Complete
861 Receipt
302 VAS maintains products and sends 832 to ProCure
VAS receives product from vendor and put away
856
Replenishment complete
867
126 Supplier invoices hospital
820
118 Product ships to hospital
852
Order is sent to TMS for freight rate and shipping inf.
QMS order sent to WMS, picked and packed Narcotics have own process
116 Order received by EDI1, translated and sent to OMS
146 Narcotics shipments compared to receipt
VAS
300 Vendor sends product information to VAS
Vendor replenishes inventory to VAS
Vendor receives sales information
Vendor receives payment information
Vendor completes payment process
Vendor receives product activity
Vendor plans production
VAS Supplier

Fig. 6

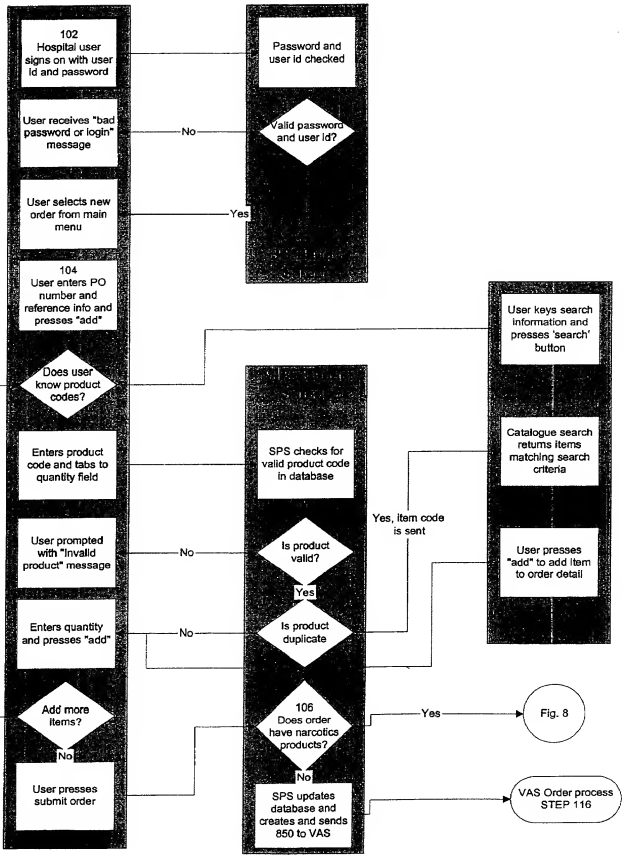

102
Hospital user signs on with user Id and password
Password and user id checked
User receives "bad password or login" message
No
Valid password and user id?
User selects new order from main menu
Yes
104
User enters PO number and reference info and presses "add"
User keys search information and presses 'search' button
Does user know product codes?
Catalogue search returns items matching search criteria
Enters product code and tabs to quantity field
SPS checks for valid product code in database
Yes, item code is sent
User prompted with "Invalid product" message
Yes
No
Is product valid?
User presses "add" to add item to order detail
Yes
Enters quantity and presses "add"
No
Is product duplicate
Add more items?
106
Does order have narcotics products?
Yes
Fig. 8
No
User presses submit order
SPS updates database and creates and sends 850 to VAS
No
VAS Order process STEP 116

Fig. 7

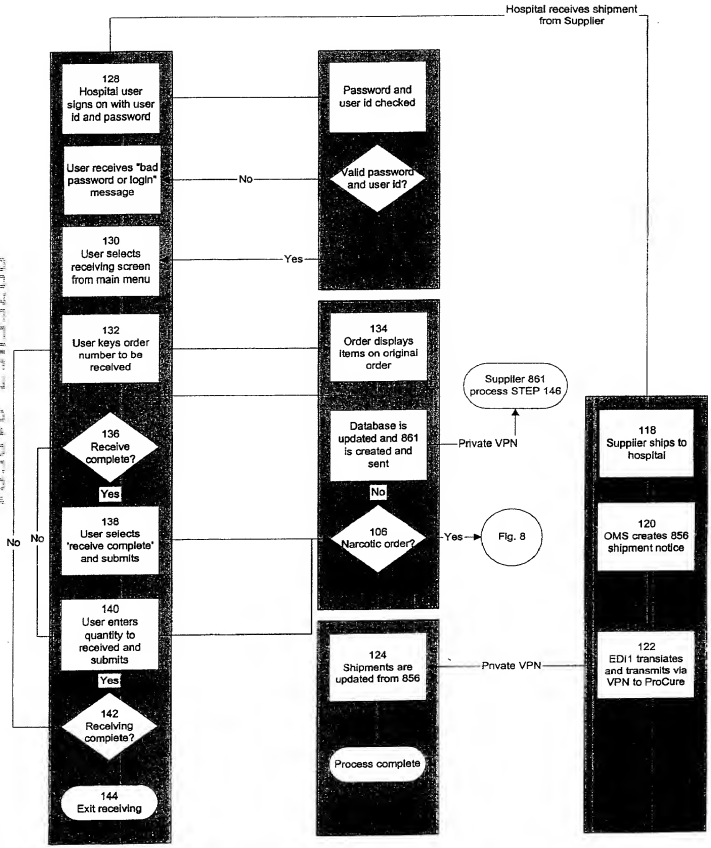
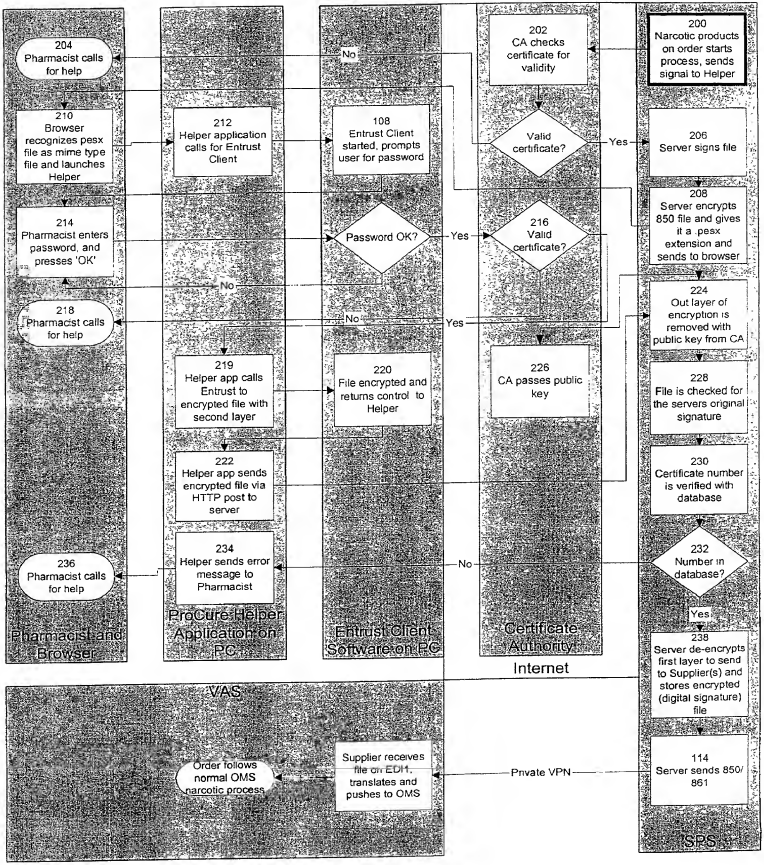

Hospital receives shipment from Supplier
128 Hospital user signs on with user id and password
Password and user id checked
User receives "bad password or login" message
No
Valid password and user id?
130 User selects receiving screen from main menu
Yes
132 User keys order number to be received
134 Order displays items on original order
Supplier 861 process STEP 146
136 Receive complete?
Database is updated and 861 is created and sent
Private VPN
118 Supplier ships to hospital
Yes
No
138 User selects 'receive complete' and submits
106 Narcotic order?
Yes
Fig. 8
120 OMS creates 856 shipment notice
No
140 User enters quantity to received and submits
124 Shipments are updated from 856
Private VPN
122 EDI1 transiates and transmits via VPN to ProCure
Yes
142 Receiving complete?
Process complete
144 Exit receiving

Fig. 8


204 Pharmacist calls for help
210 Browser recognizes pesx file as mime type file and launches Helper
214 Pharmacist enters password, and presses 'OK'
218 Pharmacist calls for help
236 Pharmacist calls for help
Pharmacist and Browser
212 Helper application calls for Entrust Client
219 Helper app calls Entrust to encrypted file with second layer
222 Helper app sends encrypted file via HTTP post to server
234 Helper sends error message to Pharmacist
ProCure Helper Application on PC
108 Entrust Client started, prompts user for password
Password OK?
No
Yes
220 File encrypted and returns control to Helper
Entrust Client Software on PC
202 CA checks certificate for validity
Valid certificate?
Yes
216 Valid certificate?
226 CA passes public key
Certificate Authority
Internet
200 Narcotic products on order starts process, sends signal to Helper
206 Server signs file
208 Server encrypts 850 file and gives it a .pesx extension and sends to browser
224 Out layer of encryption is removed with public key from CA
228 File is checked for the servers original signature
230 Certificate number is verified with database
232 Number in database?
No
Yes
238 Server de-encrypts first layer to send to Supplier(s) and stores encrypted (digital signature) file
114 Server sends 850/861
SPS
Private VPN
VAS
Order follows normal OMS narcotic process
Supplier receives file on EDI, translates and pushes to OMS